



**KING EDWARD VII SANATORIUM
MIDHURST**

***TWENTY-THIRD
ANNUAL REPORT***

JULY 1928 to JULY 1929

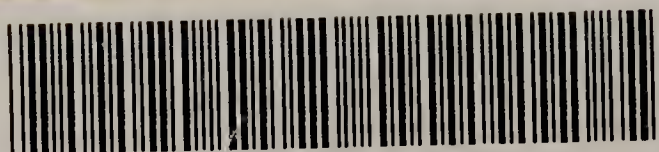
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KING EDWARD VII SANATORIUM MIDHURST

Twenty-third Annual Report JULY 1928 to JULY 1929

DURING the period June 30th, 1928, to June 30th, 1929, 295 patients were admitted to the Sanatorium. Of these, 47 were re-admissions and 53 remained for a period of less than nine weeks, and are therefore not considered in after-history records. During the same period, 187 patients were discharged and were grouped as follows, according to the condition on admission :—

Group I ..	..	..	..	..	..	45
Group II ..	..	..	..	..	..	105
Group III ..	..	..	..	..	..	21
Group IV ..	..	..	..	..	..	16

The number of applications was greater than in the corresponding period of the last Report, namely, 605 as against 578, and the average waiting list has been higher—between 13 and 14 for men (as against 12 and 13), and 10 and 11 for women (as against 9 and 10). 141 applicants were examined by the Medical Superintendent; 114 (80·8 per cent.) were accepted and 27 (19·2 per cent.) were rejected.

The number of cases in Groups I and II total 150 as against 138 in the previous year; while those in Group III number only 21 as against 40.

The investigation of the after-history of pneumothorax has been carried on, and 83 cases are now reported on.

Sixteen cases were discharged as having no definite evidence of Pulmonary Tuberculosis ; they were classified as follows :—

Nothing definite found	..	..	..	..	8
Thickened pleura only	..	..	..	..	5
Chronic Bronchitis and Emphysema	..	..	..	..	1
General debility	..	..	..	..	1
Blastomycosis	..	..	..	..	1

Considerable attention has been paid throughout the year to the social side of the Sanatorium life, which is believed to be an important factor in the treatment. Much variety of entertainment has been provided by the Council and by friends of patients, and has been carried out with the co-operation of committees of patients under their own General Purposes Committee. The wireless installation has now been connected to every bedroom, and it has been possible to arrange programmes of fairly recent issues for the Cinema show given once a week during the winter.

GENERAL STATISTICS.

The following Tables show an analysis of the 187 patients discharged during the past year, with regard to—

- (1) Place of Residence.
- (2) Occupation.
- (3) Age and Sex.
- (4) Married or Single.
- (5) Mode of Onset.
- (6) Duration of Disease.

TABLE I.—PLACE OF RESIDENCE.

Place of Residence	Number of Patients	Place of Residence	Number of Patients
London	67	Somerset	3
Surrey	12	Lincolnshire	2
Lancashire	12	Staffordshire	2
Essex	11	Hertfordshire	2
Hampshire	9	Norfolk	2
Yorkshire	8	Cambridgeshire	2
Sussex	8	Northamptonshire	2
Middlesex	7	Dorset	1
Wales	7	Bedfordshire	1
Ireland	6	Gloucestershire	1
Cheshire	5	Cumberland	1
Leicester	4	Suffolk	1
Warwickshire	3	Scotland	1
Devonshire	3	America	1
Buckinghamshire	3		
			187

TABLE II.—OCCUPATION

Occupation	Number of Patients	Occupation	Number of Patients
Clerks	43	Councillors	1
Housewives	25	Factory Matrons	1
Teachers	14	School Girls	1
No Occupation	10	School Boys	1
Nurses	10	Planters	1
Agents and Travellers	9	Inspectors	1
Engineers	7	Poultry Farmers	1
Accountants	6	Actresses	1
Doctors	5	Superintendents	1
Clergymen	5	Solicitors	1
Shop Keepers	5	Architects	1
Managers	4	Journalists	1
Secretaries	4	Violinists	1
Royal Air Force	3	Artists	1
Navy	3	Composers	1
Actors	3	Exporters	1
Students	3	Antique Dealers	1
Shop Assistants	3	Laboratory Assistants	1
Army	2	Apprentices	1
Manufacturers	2	Telephonists	1
Buyers	1		
			187

TABLE III.—AGE AND SEX

Years						Males	Females	Total
Under 20.	..	..	..	..	..	7	8	15
20-25	..	..	..	..	..	32	22	54
26-30	..	..	..	..	..	18	17	35
31-35	..	..	..	..	..	15	19	34
36-40	..	..	..	..	..	8	7	15
41-45	..	..	..	..	..	11	5	16
46-50	..	..	..	..	..	6	3	9
Over 50	..	..	..	..	..	6	3	9
TOTALS						103	84	187

TABLE IV

Married	..	..	..	..	..	..	64
Single	..	..	..	..	..	..	123
							<u>187</u>

TABLE V.—MODE OF ONSET.

Mode of Onset						Number of Cases	Percentage
Cough	..	..	..	..	..	90	48·1
Influenza	..	..	..	..	..	25	13·4
Pleurisy	..	..	..	..	..	25	13·4
Hæmoptysis	..	..	..	..	..	16	8·5
Other Modes	..	..	..	..	..	31	16·6
						187	—

TABLE VI.—DURATION OF DISEASE

Average duration	..	..	..	1 year·11 months.
Extremes	..	..	..	1 month—25 years.

TABLE VII.—GENERAL RESULTS OF TREATMENT AS SHOWN BY THE CONDITION OF THE PATIENTS ON ADMISSION AND ON DISCHARGE FROM THE SANATORIUM DURING THE YEAR 1928-1929

Group on Admission		Number of Cases	Arrested	Much Improved	Improved	Stationary or Worse
I	..	45	33	6	4	2
II	..	105	29	21	37	18
III	..	21	—	2	9	10
All Cases		171	62	29	50	30
IV	..	Patients in whom no definite evidence of Pulmonary Tuberculosis was found	Num-ber of Cases			
			16	2	12	2

GROUPS.—As in previous Annual Reports, the Turban-Gerhardt classification has been used to indicate the clinical condition of patients on admission. This classification, based on physical signs, is as follows :—

Group I.—Disease of slight severity, limited to small areas of one lobe on either side, which, in the case of affection of both apices, does not extend beyond the spine of the scapula or the clavicle, or in the case of affection of the apex of one lung, does not extend below the second rib in front.

Group II.—Disease of slight severity, more extensive than Group I, but affecting at most, the whole of one lobe ; or severe disease extending at most, to the half of one lobe.

Group III.—All cases of greater severity than Group II, and all those with considerable cavities.

By “disease of slight severity,” is to be understood, disseminated foci characterised by slight dullness, indefinite rough or weak vesicular, vesico-bronchial, or broncho-vesicular breathing, and fine and medium crepitations.

By “severe disease” : massive infiltration recognised by definite dullness, broncho-vesicular or bronchial breathing, with or without crepitations.

Cases with signs of considerable excavation, giving rise to tympanitic percussion with amphoric or cavernous breathing and numerous coarse consonating rales, come under Group III.

Pleuritic dullness, if only of slight extent, is to be left out of account ; if it is considerable, pleuritis should be specially mentioned under tuberculous complications.

The following terms are used to describe the condition of patients on discharge from the Sanatorium :—

“DISEASE ARRESTED.”—General health completely restored in every respect, without any sign of disease of the lungs except such as is compatible with a completely healed lesion. Sputum, if still present, free from tubercle bacilli.

“MUCH IMPROVED.”—General health good. Physical signs of disease in the lungs, though much diminished, not entirely cleared up, *e.g.*, limited to a few crepitations on cough only. Tubercle bacilli still to be detected in the sputum.

“IMPROVED.”—General health improved, but not restored. Physical signs of disease in the lungs still present, though less marked than on admission.

“STATIONARY.”—No appreciable improvement in the condition of the lungs or in the general health.

“WORSE.”—General or local condition worse.

TABLE VIII.—DEMONSTRATION OF T.B. IN SPUTUM

On Admission				On Discharge			
Positive	..	..	118	Positive	..	..	66
Negative	..	..	33	Negative	..	..	61
No Sputum	..	..	20	No Sputum	..	..	44
Group IV Cases		..	16	Group IV Cases		..	16
All Cases 187				All Cases 187			
Number of Patients who lost T.B. in Sanatorium ..				52			

TABLE IX.—WEIGHT

Weight					Group I	Group II	Group III	Group IV
Gained	..	..	..	..	37	82	16	13
Lost	..	..	..	..	8	15	1	2
No Change	..	..	..	..	—	1	—	—
Not Weighed	..	..	..	..	—	7	4	1
All Cases					45	105	21	16

REPORTS OF SPECIAL DEPARTMENTS.

REPORT OF THE THROAT DEPARTMENT.

All the 187 patients discharged during the year ending 30th June, 1929, were examined laryngoscopically by Sir St. Clair Thomson. Of these, in 147 the larynx was found to be normal, while in 30 there was found to be definite tuberculous disease. The results of treatment are shown in Tables X, XI and XII.

TABLE X.—SHOWING THE RESULT ON DISCHARGE OF TREATMENT IN PATIENTS SUFFERING FROM TUBERCULOSIS OF THE LARYNX IN WHOSE SPUTUM TUBERCLE BACILLI *were* DEMONSTRATED IN THE SANATORIUM.

	Number of Cases	Cured	Much Improved	Improved	Stationary or Worse	Remarks
Group I ..	1	1	—	—	—	For cases treated with Galvano-Cautery, <i>see</i> Table XII
Group II ..	19	8	1	5	5	
Group III ..	5	1	1	1	2	
All Cases ..	25	10	2	6	7	

TABLE XI.—SHOWING THE RESULT ON DISCHARGE OF TREATMENT IN PATIENTS SUFFERING FROM TUBERCULOSIS OF THE LARYNX IN WHOSE SPUTUM TUBERCLE BACILLI *were not* DEMONSTRATED IN THE SANATORIUM.

	Number of Cases	Cured	Much Improved	Improved	Stationary or Worse	Remarks
Group I ..	1	—	1	—	—	For cases treated with Galvano-Cautery, <i>see</i> Table XII
Group II ..	3	1	1	1	—	
Group III ..	1	—	—	—	1	
All cases ..	5	1	2	1	1	

TABLE XII.—SHOWING THE RESULT ON DISCHARGE OF TREATMENT WITH THE GALVANO-CAUTERY IN PATIENTS SUFFERING FROM TUBERCULOSIS OF THE LARYNX.

	Number of Cases	Cured	Much Improved	Improved	Stationary or Worse	Remarks
Group I ..	1	—	1	—	—	
Group II ..	4	2	1	—	1	
Group III ..	2	—	1	1	—	
All cases ..	7	2	3	1	1	

One larynx was normal on admission, suspicious on discharge.

AFTER-HISTORY OF ARTIFICIAL PNEUMOTHORAX CASES.

Since October, 1924, artificial pneumothorax has been attempted in 83 cases, and carried on in 60 cases, and in all the after-history has been followed to date.

These may be grouped as follows:—

Choice I.—Cases with involvement of one lung.

Choice II.—Cases with cavitation or much evident fibrosis of one lung, or with involvement of the better lung not beyond the upper third.

Choice III.—Cases in extremis, *e.g.*, with hæmoptysis.

Cases with bilateral disease—but with a possibility of aid by limited pneumothorax on the more active side.

In 23 of our cases it was not possible to carry on the treatment because of the failure to find a pleural space or owing to the presence of many adhesions. Fifteen of these fall under Choice II and eight under Choice III. Their after-history is as follows:—

CHOICE II—TOTAL 15				
ALIVE			DEAD	
		General Condition	General Condition	
		Good	Poor	
No space ..	..	3	I	I
Pocket only	..	3	3	—
Adhesions	..	I	I	2
CHOICE III—TOTAL 8				
ALIVE			DEAD	
		General Condition	General Condition	
		Good	Poor	
No space ..	..	—	I	I
Pocket only	..	—	—	I
Adhesions	..	—	—	5

The Choice II cases show an interesting point in prognosis. If the cases under “No space” and “Pocket only” are combined, it is seen that 10 of 11 are alive, and 6 of the 10 in good condition. It would appear that a Choice II case in which it has been impossible to induce pneumothorax, by failure to find a pleural space, has a better prognosis than one that has to be given up on account of adhesions, and this would suggest that while thoracoplasty must necessarily be kept in mind in all Choice II cases where induction of pneumothorax fails, it is more particularly urgent where failure has been due to the presence of adhesions.

Sixty cases have been still on refills when discharged from the Sanatorium. The following Table gives their after-history to date :—

		ALIVE		DEAD	TOTALS
		General Condition	General Condition		
		Good	Poor		
Choice I	..	22	1	2	25
Choice II	..	23	6	3	32
Choice III	..	—	2	1	3
Totals.. ..	..	45	9	6	60

Fifty-four of the 60 are still alive, and 45 of the 54 are in good condition. Six are dead. Two of these were Choice I cases ; 1 died of advancing disease on the other side, the other from lymphadenoma. Three of the six were Choice II cases, and of these, 2 died of advancing disease on the other side, and the other in the influenza epidemic in March, 1929. One Choice II case given as of poor condition has now a bilateral pneumothorax. Of the 3 Choice III cases, 2 are in poor condition and 1 dead.

Of the 54 cases still alive, 40 (74 per cent.) have negative sputum or no sputum. One case counted positive gave up her treatment for no apparent reason.

Twenty-nine of the 60 (48 per cent.) have been complicated by fluid at some period of the treatment ; the percentage among males is practically 52 and among females 46.

Seventeen cases have now stopped refills. All are in good condition. They may be tabulated as follows :—

	SPUTUM		Totals
	Tb+	Tb—or No Sputum	
Completed treatment ..	—	10	10
Obliterated : after fluid	2	2	4
Re-expanded—no fluid	1	1	2
Gave up treatment ..	1	—	1

Thirteen of the 17 have negative or no sputum. One of these 13 had again positive sputum when the lung re-expanded by an “obliterative pneumothorax” ; under Sanocrysin treatment in 1928 she became negative and has remained so to date. One case of the two obliterated after fluid and still positive has gone on to thoracoplasty. In the Report of the Radiological Department will be found an account of one of the successful cases.

The following figures show the results in Laryngeal disease, where pneumothorax was successfully induced :—

LARYNGEAL DISEASE PRESENT BEFORE A.P.T.

	Larynx Healed	Larynx Improved	Larynx I.S.Q.
Choice I	2	—	—
Choice II	5	1	—
Choice III	—	1	2

LARYNGEAL DISEASE DEVELOPED DURING A.P.T.

					Healed
Choice I	..	..	..	..	1 (by Galvano-Cautery)
Choice II	..	..	..	..	1

Where laryngeal disease was present before the induction of pneumothorax, cure has been attained in 7 of 8 cases that come within Choice I and Choice II; of the 3 Choice III cases; only 1 improved.

Two cases developed laryngeal disease while in the Sanatorium and while under A.P. treatment; one was cured by silence but the other required the aid of the Galvano-Cautery.

REPORT OF THE X-RAY DEPARTMENT.

We have to report a steady increase in the work of this Department. Compared with the figures for 1927-28, in which the number of examinations totalled 917 and those for the control of artificial pneumothorax 487, the present corresponding figures are 1,032 and 607.

Another part of this Report deals at length with results of artificial pneumothorax as a therapeutic measure, and it is interesting to give here an account of one of the successful cases now re-expanded.

CASE I. FEMALE, AGE 32.—Admitted 9th September, 1925. General condition very poor. History of several slight hæmoptyses. Sputum one ounce daily, T.B. positive. Temperature 98.4-99.8 (Rectal) on rest. Physical signs: Marked impairment right lower half; inspiratory crepitations to ordinary breathing and after cough lower two-thirds right side anteriorly and posteriorly.

X-Ray examination 14th September, 1925 (Fig. 1). Deficient movement of right side of diaphragm. Marked infiltration of the lower zone of right lung, in which also there was shown an annular shadow.

Artificial pneumothorax was induced on 30th September, 1925. From 16th March, 1926, the sputum was negative to eleven consecutive examinations; thereafter to date there has been no cough and no sputum.

The patient was discharged on 15th July, 1926, and she continued treatment as an out-patient until April, 1929. X-Ray on 18th October, 1926 (Fig. 2), shows collapse of the right lung with obliteration of the ring; and on 19th August, 1929 (Fig. 3), complete re-expansion of the lung, with slight fibrosis at the base and no annular shadow.

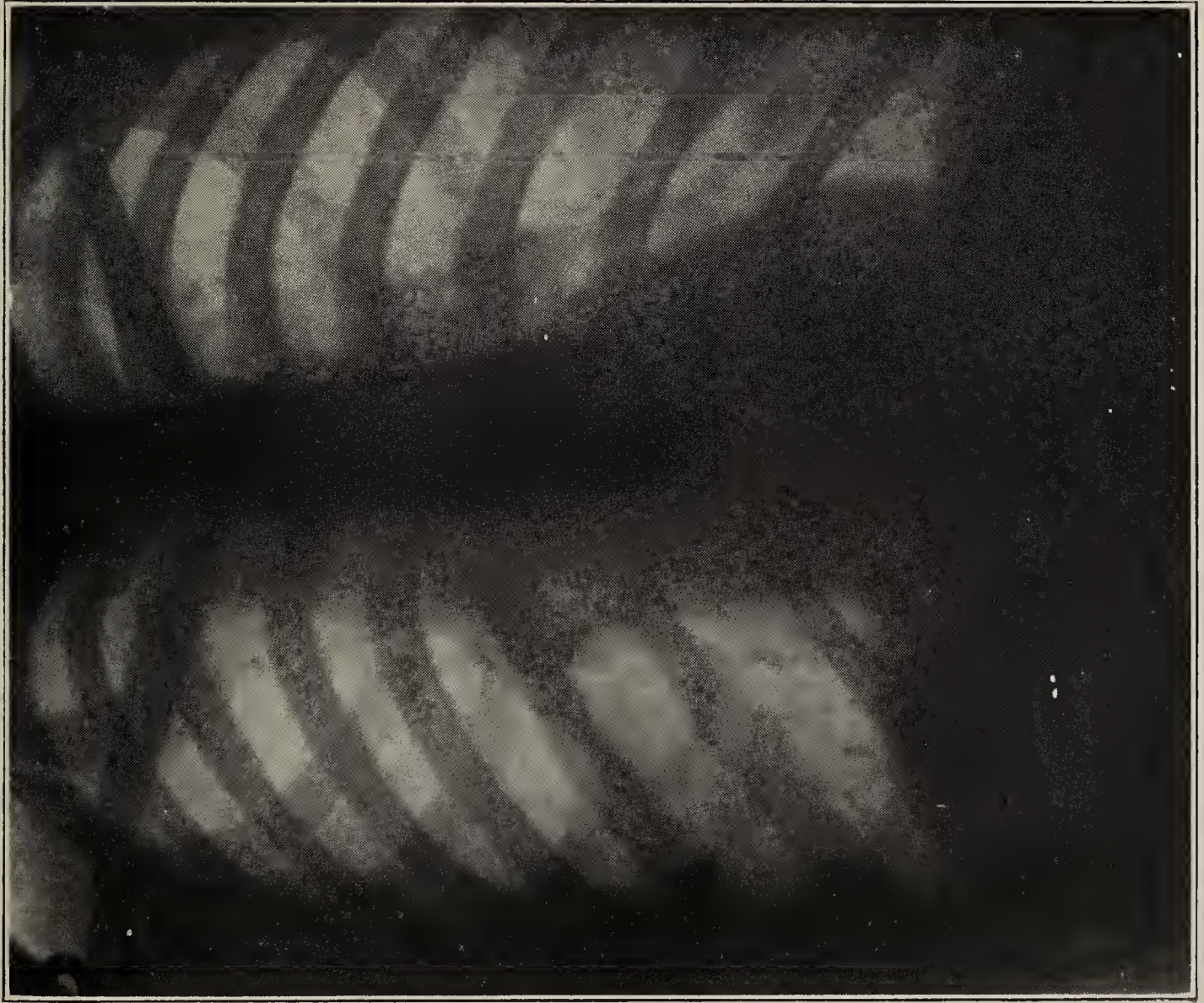


FIG. I.

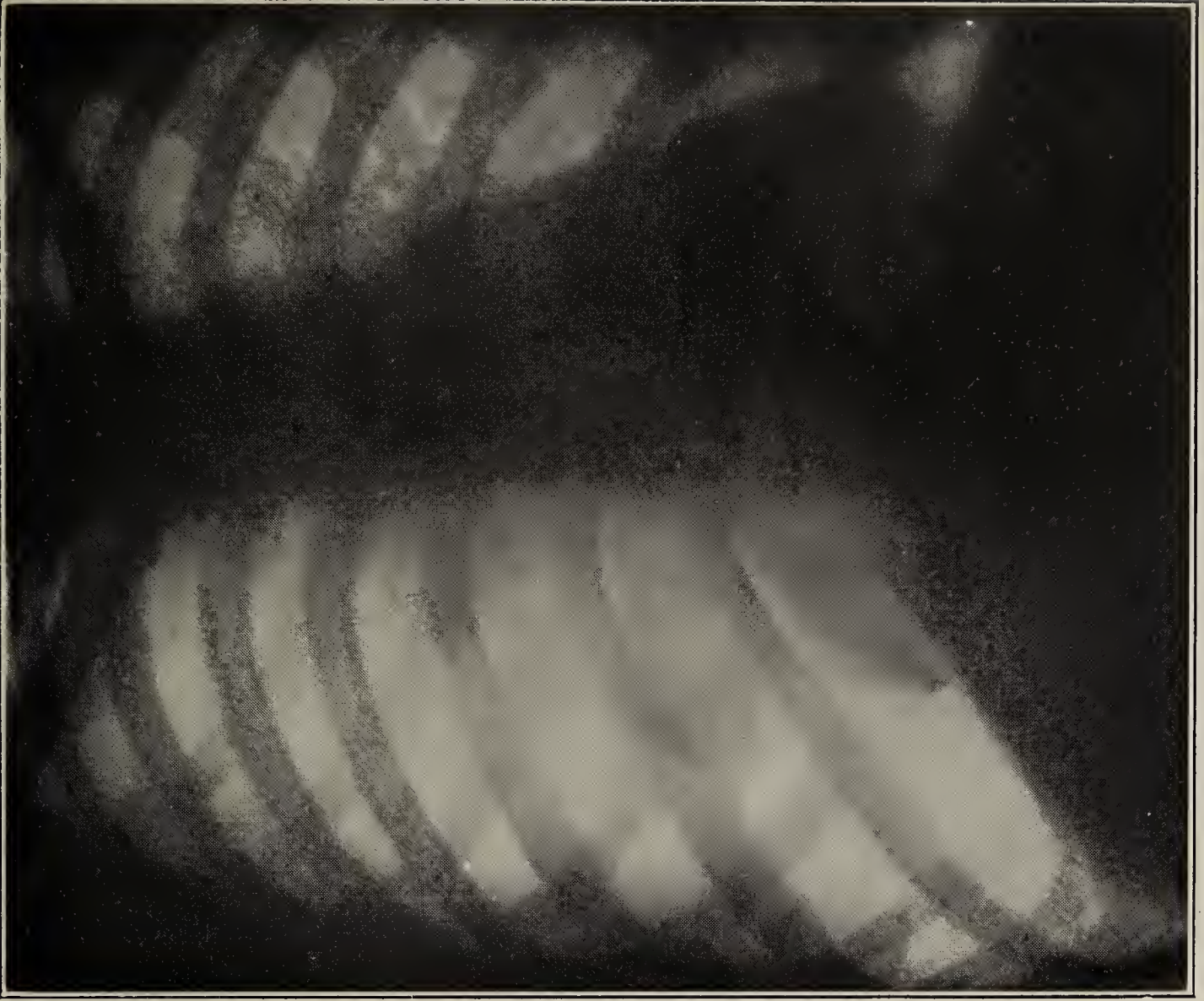


FIG. II.

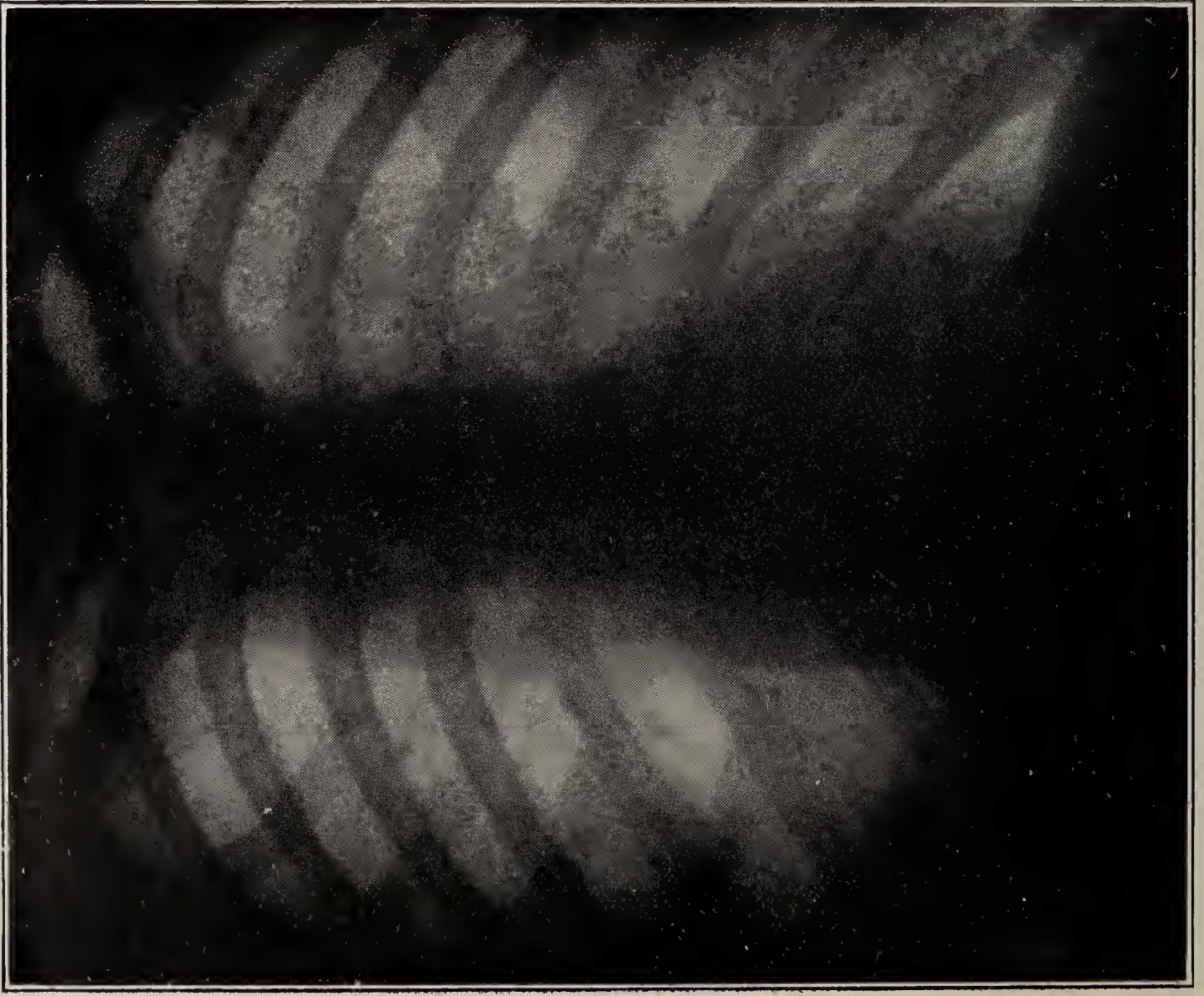


FIG. III.



FIG. IV.

CASE II. (Fig. 4.) FEMALE, AGE 20.—Seen for admission to the Sanatorium. History of recurrent hæmoptysis. Very slight sputum; slight clubbing; general condition good. Physical signs: Movement left lower half practically nil; note dull; a few fine crepitations to ordinary breathing, increased in number after cough, over the left lower lobe, especially posteriorly and basally. A diagnosis of bronchiectasis was made.

Intratracheal injection of lipiodol was carried out, and in order to demonstrate better the condition of the left base, the patient drank some effervescing water, thereby distending the fundus of the stomach.

The radiogram shows typical glove-finger processes characteristic of dilatation of the basal bronchi. Diagnosis—closed hæmoptœic bronchiectasis.

REPORT OF THE DENTAL DEPARTMENT.

The following was carried out from July, 1928, to June, 1929 :—

Fillings	..	..	..	..	..	113
Extractions	..	..	..	..	..	104
Scalings	..	..	..	..	..	23
Dentures	..	..	..	..	..	10
Repairs	..	..	..	..	..	6
Root Treatments	..	..	..	..	..	2

REPORT OF THE PATHOLOGICAL DEPARTMENT

The work of the Pathological Department has been continued along the same lines as previously, and during the year ending 30th June, 1929, over 1,800 laboratory tests, apart from sputum tests, have been done. Examination of the sputum is made at fortnightly intervals, and of the sedimentation rate at monthly intervals, except in cases with artificial pneumothorax, in which it is done weekly.

Miss Stone left on 25th January, 1929, and was followed by Miss Robinson on 11th February.

REPORT OF THE STATISTICAL DEPARTMENT.

The work of the Statistical Department has been carried out on the same lines as in previous years (*see* Annual Reports, V, XI and XII). The number of patients discharged from the Sanatorium up to date is 5,312. This number does not include Group IV cases, re-admissions or patients who were in residence too short a time to be included in the records. Those about whom information could not be obtained number 131, or 2·46 per cent.

The statistics of the ultimate results of the enquiry are shown in the following tables :—

TABLE AI.—STATISTICS OF ULTIMATE RESULTS

Cases in the Sputum of which T.B. were demonstrated in the Sanatorium

All cases considered together

Year of Dis-charge	Number Discharged	Number reported " Well " or " Alive " in each successive year after Discharge																Number Dead in 1929	Number lost sight of in 1929						
		1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923			1924	1925	1926	1927	1928	1929
1906/07	125	94	82	73	65	56	42	38	47	46	42	42	38	39	34	36	34	34	33	31	30	30	29	92	4
1907/08	206	—	149	129	112	94	71	72	70	70	75	72	63	59	58	54	54	55	52	50	46	44	44	157	5
1908/09	205	—	—	154	110	93	70	64	55	64	67	62	60	56	55	52	48	48	47	45	45	43	42	160	3
1909/10	192	—	—	—	138	112	90	75	69	73	71	69	60	61	56	53	51	49	48	47	43	42	39	148	5
1910/11	197	—	—	—	—	133	92	88	74	73	72	69	61	56	48	47	47	44	39	38	36	35	32	158	7
1911/12	198	—	—	—	—	—	111	95	81	76	72	68	55	54	50	46	44	43	40	34	33	32	31	157	10
1912/13	160	—	—	—	—	—	—	113	94	78	75	67	49	52	49	48	45	42	40	35	35	33	33	126	1
1913/14	177	—	—	—	—	—	—	—	118	84	86	82	75	75	68	60	55	49	47	46	43	43	38	133	6
1914/15	193	—	—	—	—	—	—	—	—	123	117	104	83	83	75	71	68	61	61	55	53	49	45	145	3
1915/16	154	—	—	—	—	—	—	—	—	—	105	93	68	65	57	51	48	41	38	35	35	33	30	122	2
1916/17	212	—	—	—	—	—	—	—	—	—	—	166	127	116	105	99	89	79	79	74	73	69	67	143	2
1917/18	184	—	—	—	—	—	—	—	—	—	—	—	118	115	95	82	80	69	70	62	64	62	58	122	4
1918/19	198	—	—	—	—	—	—	—	—	—	—	—	—	165	136	121	112	102	99	92	86	84	81	110	7
1919/20	196	—	—	—	—	—	—	—	—	—	—	—	—	—	165	140	126	110	100	91	85	81	74	119	3
1920/21	197	—	—	—	—	—	—	—	—	—	—	—	—	—	—	156	141	116	96	89	81	74	73	121	3
1921/22	176	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	150	127	111	92	76	69	62	113	1
1922/23	165	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	135	114	100	89	80	74	90	1
1923/24	166	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	124	112	99	91	81	84	1
1924/25	128	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	106	90	79	72	55	1
1925/26	114	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	97	89	80	32	2
1926/27	127	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	115	109	16	2
1927/28	121	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	103	17	1

TABLE A2.—STATISTICS OF ULTIMATE RESULTS

Cases in the Sputum of which T.B. were demonstrated in the Sanatorium

Group I considered separately

Year of Dis-charge	Number Discharged	Number reported "Well" or "Alive" in each successive year after Discharge																				Number Dead in 1929	Number lost sight of in 1929	
		1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927			1928
1906/07	30	27	23	21	20	20	15	14	17	17	19	18	16	18	14	15	14	14	14	13	12	12	16	2
1907/08	45	—	43	40	35	31	27	28	30	29	32	27	28	27	27	25	26	26	24	24	24	23	21	1
1908/09	28	—	—	26	23	20	16	16	12	15	15	15	15	14	13	14	13	13	13	13	14	14	14	—
1909/10	43	—	—	—	39	37	34	27	25	30	30	30	25	27	25	25	22	22	22	21	19	17	23	3
1910/11	45	—	—	—	—	41	47	31	28	30	29	30	28	25	22	22	20	20	17	17	15	13	30	2
1911/12	33	—	—	—	—	—	27	21	20	20	20	19	15	16	13	13	12	12	12	10	10	10	21	2
1912/13	15	—	—	—	—	—	—	14	14	12	11	10	9	7	8	8	8	8	8	6	6	6	9	—
1913/14	19	—	—	—	—	—	—	—	17	14	16	17	14	15	13	10	11	11	10	10	10	9	10	1
1914/15	20	—	—	—	—	—	—	—	—	16	17	16	12	13	11	12	12	12	12	10	9	9	9	2
1915/16	16	—	—	—	—	—	—	—	—	—	15	14	11	13	12	11	11	11	11	11	11	11	5	1
1916/17	24	—	—	—	—	—	—	—	—	—	—	24	22	23	22	22	22	20	20	19	18	16	6	1
1917/18	15	—	—	—	—	—	—	—	—	—	—	—	12	14	12	11	11	11	12	12	12	12	4	—
1918/19	10	—	—	—	—	—	—	—	—	—	—	—	12	10	10	10	9	9	9	9	9	9	—	1
1919/20	29	—	—	—	—	—	—	—	—	—	—	—	—	10	29	27	25	26	24	22	20	20	9	—
1920/21	45	—	—	—	—	—	—	—	—	—	—	—	—	—	—	42	30	38	34	34	32	30	15	1
1921/22	25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	25	23	22	21	19	18	7	—
1922/23	29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28	28	27	25	24	7	—
1923/24	22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21	20	19	18	4	—
1924/25	15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15	13	12	4	—
1925/26	11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11	11	1	—
1926/27	22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	22	22	—	—
1927/28	15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

TABLE A3.—STATISTICS OF ULTIMATE RESULTS

Cases in the Sputum of which T.B. were demonstrated in the Sanatorium

Group II considered separately

Year of Discharge	Number Discharged	Number reported "Well" or "Alive" in each successive year after Discharge																				Number Dead in 1929	Number lost sight of in 1929		
		1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927			1928	1929
1906/07	57	50	45	40	37	31	22	18	24	23	18	19	18	17	17	17	17	17	16	15	15	15	14	41	2
1907/08	85	—	69	51	56	47	32	32	31	33	35	32	28	25	24	23	24	23	23	22	19	18	18	64	3
1908/09	94	—	—	82	59	48	34	37	32	38	40	36	34	33	31	31	31	31	31	29	28	26	25	66	3
1909/10	99	—	—	—	69	59	44	38	36	36	33	32	28	26	24	25	25	24	24	25	23	22	21	76	2
1910/11	100	—	—	—	—	68	43	49	40	37	37	35	29	28	22	22	21	19	18	16	16	16	16	79	5
1911/12	110	—	—	—	—	—	65	59	49	43	41	38	34	33	29	29	28	25	22	22	21	21	20	84	6
1912/13	101	—	—	—	—	—	—	77	68	53	51	45	33	38	35	32	29	28	25	25	25	25	25	75	1
1913/14	95	—	—	—	—	—	—	—	74	54	55	54	51	50	47	42	34	32	31	28	29	29	26	65	4
1914/15	99	—	—	—	—	—	—	—	—	74	74	69	57	57	51	46	38	39	36	36	33	33	30	68	1
1915/16	71	—	—	—	—	—	—	—	—	—	54	49	35	33	28	24	17	14	12	12	12	12	10	61	—
1916/17	99	—	—	—	—	—	—	—	—	—	—	89	72	65	62	56	44	46	43	43	42	42	40	58	1
1917/18	86	—	—	—	—	—	—	—	—	—	—	—	63	65	54	50	40	41	36	36	38	38	36	48	2
1918/19	98	—	—	—	—	—	—	—	—	—	—	—	—	86	72	69	60	59	56	55	53	53	50	45	3
1919/20	69	—	—	—	—	—	—	—	—	—	—	—	—	—	63	55	46	43	42	39	35	35	31	37	1
1920/21	62	—	—	—	—	—	—	—	—	—	—	—	—	—	—	56	38	31	28	26	24	24	24	36	2
1921/22	48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	35	31	27	23	23	23	19	29	—
1922/23	28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	27	24	23	23	21	21	18	10	—
1923/24	29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	26	25	22	22	21	17	11	1
1924/25	59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	52	50	43	39	38	20	—
1925/26	46	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	42	40	43	38	8	—
1926/27	69	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	66	63	6	6	—
1927/28	69	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	61	7	1

TABLE A4.—STATISTICS OF ULTIMATE RESULTS

Cases in the Sputum of which T.B. were demonstrated in the Sanatorium

Group III considered separately

Year of Dis-charge	Number Discharged	Number reported " Well " or " Alive " in each successive year after Discharge																			Number Dead in 1929	Number lost sight of in 1929			
		1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926			1927	1928	1929
1906/07	38	17	14	12	8	6	5	6	6	5	5	4	4	4	3	4	3	3	3	3	3	3	3	35	—
1907/08	76	—	37	28	22	18	12	12	9	8	8	7	7	7	6	5	5	5	5	4	4	3	3	72	1
1908/09	83	—	—	40	31	22	13	12	11	12	11	11	11	6	4	4	3	3	3	3	3	3	3	80	—
1909/10	50	—	—	—	25	16	12	10	8	8	7	6	5	5	4	3	3	2	2	1	1	1	1	49	—
1910/11	52	—	—	—	—	17	9	8	6	6	4	4	3	3	3	3	3	3	3	3	3	3	3	49	—
1911/12	55	—	—	—	—	—	19	15	12	11	11	5	5	5	5	4	3	3	3	2	2	2	1	52	2
1912/13	44	—	—	—	—	—	—	22	12	13	12	6	7	7	6	5	5	4	4	4	4	2	2	42	—
1913/14	63	—	—	—	—	—	—	—	27	15	11	10	10	10	8	7	4	4	5	5	5	5	4	58	1
1914/15	74	—	—	—	—	—	—	—	—	26	19	14	13	13	13	13	11	11	10	9	9	7	6	68	—
1915/16	67	—	—	—	—	—	—	—	—	36	30	22	19	16	17	16	13	13	12	12	12	10	10	56	1
1916/17	89	—	—	—	—	—	—	—	—	—	53	33	28	21	21	21	18	17	13	12	12	11	10	79	—
1917/18	83	—	—	—	—	—	—	—	—	—	—	43	36	29	21	21	20	17	13	14	14	12	11	70	2
1918/19	90	—	—	—	—	—	—	—	—	—	—	—	69	54	54	42	39	31	27	27	22	22	22	65	3
1919/20	98	—	—	—	—	—	—	—	—	—	—	—	—	73	58	58	53	33	33	27	26	26	23	73	2
1920/21	90	—	—	—	—	—	—	—	—	—	—	—	—	—	58	58	54	31	27	27	23	20	20	70	—
1921/22	103	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	82	58	32	44	32	27	25	77	1
1922/23	108	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	62	43	50	43	35	34	73	1
1923/24	115	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77	58	67	58	52	46	69	—
1924/25	54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	39	27	24	22	31	1
1925/26	57	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	44	38	32	23	2
1926/27	36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	24	10	2
1927/28	37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	27	10	—

TABLE A5.—STATISTICS OF ULTIMATE RESULTS

Cases in the Sputum of which T.B. were not demonstrated in the Sanatorium

All cases considered together

Year of Dis- charge	Number reported " Well " or " Alive " in each successive year after Discharge																							Number Dead in 1929	Number lost sight of in 1929
	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929			
1906/07	24	23	20	19	19	18	15	14	16	18	19	21	19	18	18	18	18	16	17	18	18	16	5	3	
1907/08	51	—	49	47	45	40	33	34	35	36	37	38	37	35	36	34	31	33	33	33	32	31	15	5	
1908/09	66	—	—	57	45	41	33	47	40	42	40	43	44	44	42	43	43	43	39	37	39	40	21	5	
1909/10	59	—	—	—	54	49	44	48	42	42	49	43	43	42	42	42	41	40	39	38	37	36	17	6	
1910/11	48	—	—	—	—	42	32	38	37	40	38	34	34	33	31	30	32	31	31	30	30	30	16	2	
1911/12	48	—	—	—	—	42	36	32	36	34	36	29	31	27	27	27	27	27	27	27	27	25	20	3	
1912/13	31	—	—	—	—	—	—	29	28	25	28	24	26	25	24	25	24	23	23	23	23	22	7	2	
1913/14	41	—	—	—	—	—	—	—	37	31	37	33	35	33	32	33	33	34	34	34	32	32	7	2	
1914/15	35	—	—	—	—	—	—	—	—	28	30	29	24	23	20	22	22	21	20	20	21	20	13	2	
1915/16	59	—	—	—	—	—	—	—	—	—	53	47	47	44	45	44	43	44	43	42	41	40	16	3	
1916/17	58	—	—	—	—	—	—	—	—	—	—	56	53	47	50	47	48	48	50	49	49	47	9	2	
1917/18	117	—	—	—	—	—	—	—	—	—	—	108	105	102	95	98	97	97	98	95	92	89	23	5	
1918/19	119	—	—	—	—	—	—	—	—	—	—	—	115	112	109	107	104	103	102	101	99	99	15	5	
1919/20	78	—	—	—	—	—	—	—	—	—	—	—	—	75	74	72	71	68	68	66	65	63	14	1	
1920/21	66	—	—	—	—	—	—	—	—	—	—	—	—	—	66	66	64	64	63	61	60	62	1	3	
1921/22	93	—	—	—	—	—	—	—	—	—	—	—	—	—	—	92	84	82	81	79	78	75	15	3	
1922/23	51	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	46	44	44	43	40	38	12	1	
1923/24	68	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	65	63	60	59	58	10	—	
1924/25	72	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	71	68	66	62	6	4	
1925/26	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	67	67	65	5	—	
1926/27	41	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	39	39	2	—	
1927/28	55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	54	1	—	

TABLE A6.—STATISTICS OF ULTIMATE RESULTS

Cases in the Sputum of which T.B. were not demonstrated in the Sanatorium

Group I considered separately

Year of Dis-charge	Number Discharged	Number reported " Well " or " Alive " in each successive year after Discharge																				Number Dead in 1929	Number lost sight of in 1929
		Number reported " Well " or " Alive " in each successive year after Discharge																					
		1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927		
1906/07	16	14	14	14	13	10	11	13	13	13	15	15	14	13	13	13	14	13	14	14	14	12	2
1907/08	31	30	30	29	25	23	22	24	24	26	25	25	24	22	22	23	24	23	23	23	23	22	6
1908/09	39	—	36	28	27	19	25	23	23	25	28	28	29	29	27	27	28	28	26	25	26	27	8
1909/10	42	—	—	39	36	32	30	34	35	35	35	32	33	32	32	32	31	31	30	30	23	28	4
1910/11	37	—	—	—	33	25	29	31	29	29	29	27	27	26	24	24	24	24	24	23	24	24	9
1911/12	26	—	—	—	—	22	23	20	21	21	21	20	20	18	18	18	18	18	18	19	19	19	11
1912/13	19	—	—	—	—	18	17	16	18	17	17	14	15	14	15	15	14	14	14	14	14	13	2
1913/14	28	—	—	—	—	—	26	21	28	27	27	25	26	25	25	25	26	26	26	26	24	24	2
1914/15	17	—	—	—	—	—	—	13	15	14	14	9	13	11	11	12	12	12	11	11	12	12	5
1915/16	32	—	—	—	—	—	—	—	—	32	32	29	29	27	28	27	28	28	29	29	29	28	1
1916/17	34	—	—	—	—	—	—	—	—	31	33	31	33	28	31	29	31	30	32	32	32	29	1
1917/18	51	—	—	—	—	—	—	—	—	—	—	47	48	46	42	44	45	45	46	46	45	44	2
1918/19	35	—	—	—	—	—	—	—	—	—	—	—	34	34	33	33	34	34	33	34	33	32	2
1919/20	50	—	—	—	—	—	—	—	—	—	—	—	—	47	48	47	45	44	43	42	41	41	1
1920/21	48	—	—	—	—	—	—	—	—	—	—	—	—	—	48	48	47	47	46	44	43	45	2
1921/22	51	—	—	—	—	—	—	—	—	—	—	—	—	—	—	50	49	48	47	46	46	46	1
1922/23	35	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	33	32	32	31	29	28	6
1923/24	43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	43	42	40	39	39	4
1924/25	49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	48	46	45	43	3
1925/26	44	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	43	43	43	1
1926/27	25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	24	24	—
1927/28	35	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	35	—

TABLE A7.—STATISTICS OF ULTIMATE RESULTS

Cases in the Sputum of which T.B. were not demonstrated in the Sanatorium

Group II considered separately

Year of Discharge	Number reported " Well " or " Alive " in each successive year after Discharge																						Number Discharged
	Number reported " Well " or " Alive " in each successive year after Discharge																						
	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	
1906/07	6	5	5	5	5	5	4	5	5	6	6	6	5	5	5	4	4	3	3	4	4	4	1
1907/08	—	18	15	14	13	10	11	12	13	13	13	13	12	12	12	10	10	10	10	9	9	9	1
1908/09	—	—	20	16	13	14	15	14	14	14	15	15	15	14	14	14	14	14	12	11	12	1	
1909/10	—	—	—	13	11	10	10	11	12	12	12	9	9	9	9	9	9	8	8	8	8	1	
1910/11	—	—	—	—	8	8	8	8	9	9	8	7	7	7	7	6	7	7	7	7	6	1	
1911/12	—	—	—	—	—	14	9	12	13	14	14	8	10	9	8	8	8	8	8	8	6	1	
1912/13	—	—	—	—	—	—	9	9	7	8	8	8	8	8	6	7	7	7	7	7	6	—	
1913/14	—	—	—	—	—	—	—	9	9	8	8	7	8	7	7	7	7	7	7	7	7	3	
1914/15	—	—	—	—	—	—	—	—	9	13	13	10	9	10	8	9	9	9	9	9	8	—	
1915/16	—	—	—	—	—	—	—	—	—	19	16	15	16	15	15	15	14	14	12	11	11	1	
1916/17	—	—	—	—	—	—	—	—	—	—	23	22	20	19	19	18	17	18	18	17	18	2	
1917/18	—	—	—	—	—	—	—	—	—	—	—	55	51	50	48	48	47	47	47	45	43	1	
1918/19	—	—	—	—	—	—	—	—	—	—	—	—	68	67	68	68	66	64	64	62	61	3	
1919/20	—	—	—	—	—	—	—	—	—	—	—	—	—	20	20	20	20	18	19	19	18	2	
1920/21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14	14	13	13	13	13	13	1	
1921/22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28	26	27	27	26	25	2	
1922/23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8	7	7	7	6	—	
1923/24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14	14	14	14	3	
1924/25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18	17	16	1	
1925/26	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19	17	2	
1926/27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19	19	2	
1927/28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10	1	

TABLE A8.—STATISTICS OF ULTIMATE RESULTS

Cases in the Sputum of which T.B. were not demonstrated in the Sanatorium

Group III considered separately

Year of Dis-charge	Number Discharged	Number reported " Well " or " Alive " in each successive year after Discharge																Number Dead in 1929	Number lost sight of in 1929					
		1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923			1924	1925	1926	1927	1928
1906/07	1	1																						
1907/08	2		1	2	0	2	0	0	0	1	1	0	1	0	1	1	1	1	0	0	0	0	0	1
1908/09	2				1	2	1	1	2	2	2	1	1	0	1	1	1	1	1	1	1	1	1	1
1909/10	2																							
1910/11	1					1	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1
1911/12	2							1	2	1	2	1	1	3	1	1	1	2	1	1	0	2	1	1
1912/13	3																							
1913/14	2																							
1914/15	4																							
1915/16	4																							
1916/17	0																							
1917/18	7																							
1918/19	13																							
1919/20	8																							
1920/21	4																							
1921/22	14																							
1922/23	7																							
1923/24	10																							
1924/25	5																							
1925/26	7																							
1926/27	5																							
1927/28	2																							

Group	Improved	I II	— I4 I	4 2I I	3 2I I	I I2 —	3 I6 2	3 I7 —	4 8 —	I 8 —	I I3 —	2 9 —	8 7 —	4 I2 I	4 6 —	I 4 —	— 7 —	I — —	— I —	I6 2 —	Alive Dead Lost sight of
Group III.	Stationary or Worse	— 6 I	I I8 —	— I8 —	— I6 —	I I8 —	I 20 2	2 I9 —	— I8 —	4 I8 —	I I3 —	3 I0 —	2 8 I	I 7 —	— 2 —	— 2 —	— I —	— — —	— — —	9 3 I	Alive Dead Lost sight of
	Disease Arrested	— — —	— — —	— 2 —	— — —	— — —	I I —	— I —	— I —	— — —	— I —	— I —	— — —	— — —	2 I —	4 2 —	4 4 —	2 3 —	8 — —	I — —	Alive Dead Lost sight of
	Much Improved	2 8 —	I I8 I	I 9 —	— II —	2 9 —	— 6 I	— 6 —	3 6 —	I I9 —	9 I4 I	7 27 —	9 26 I	I8 29 2	I3 24 I	I0 26 —	I5 48 I	26 39 I	34 33 —	7 I —	Alive Dead Lost sight of
	Improved	I I0 —	2 2I —	2 27 —	I I7 —	— I7 —	— I3 I	— II —	— I0 —	2 I7 —	I I3 —	— 26 —	— 20 I	4 I7 I	7 30 I	6 34 —	6 20 —	3 23 —	4 27 —	I I 2 —	Alive Dead Lost sight of
	Stationary or Worse	— I7 —	— 33 —	— 42 —	— 2I —	I 23 —	— 32 —	2 24 —	I 4I I	3 32 —	— 28 —	3 25 —	2 24 —	— I9 —	I I8 —	— 8 —	— 5 —	3 8 —	— 9 —	8 7 —	Alive Dead Lost sight of
	Summary	29 92 4	44 I57 5	42 I60 3	39 I48 5	32 I58 7	3I I57 I0	33 I26 I	38 I33 6	45 I45 3	30 I22 2	67 I43 2	58 I22 4	8I IIO 7	74 I19 3	73 I2I 3	62 I13 I	74 90 I	8I 84 I	I03 I7 I	Alive Dead Lost sight of
	TOTAL	I25	206	205	I92	I97	I98	I60	I77	I93	I54	2I2	I84	I98	I96	I97	I76	I65	I66	I27	I2I

TABLE B2.—STATISTICS OF ULTIMATE RESULTS

Cases in the Sputum of which T.B. were not demonstrated in the Sanatorium

Condition on Admission		Discharges during the Year																				Condition in 1929		
		1906 / 07	1907 / 08	1908 / 09	1909 / 10	1910 / 11	1911 / 12	1912 / 13	1913 / 14	1914 / 15	1915 / 16	1916 / 17	1917 / 18	1918 / 19	1919 / 20	1920 / 21	1921 / 22	1922 / 23	1923 / 24	1924 / 25	1925 / 26		1926 / 27	1927 / 28
Group I	Discharge Arrested	11 2 1	18 4 3	22 7 4	25 8 5	23 11 1	18 7 —	10 2 2	6 — —	6 1 —	27 3 —	17 2 1	35 5 1	24 1 1	34 5 —	42 1 2	43 4 —	23 3 1	32 4 —	33 2 3	34 1 —	22 1 —	27 — —	Alive Dead Lost sight of
	Much Improved	1 — 1	4 1 —	2 1 —	2 — —	1 — —	— — —	— 2 —	4 4 —	1 — 1	12 2 —	12 2 —	8 — —	7 — 1	2 3 1	1 — —	1 — 1	4 2 —	5 — —	8 1 1	4 — —	— — —	4 — —	Alive Dead Lost sight of
	Improved	— — —	— 1 —	2 — —	— 1 —	— — —	1 — —	— — —	— — —	2 — —	— — —	— — —	— — —	1 — 1	— — —	4 — —	2 — —	2 — —	1 1 —	1 — —	1 — —	1 — —	3 — —	Alive Dead Lost sight of
	Stationary or Worse	— — —	— — —	1 — —	1 — —	— — 1	— — —	3 — —	— — —	— — —	— — —	— — —	— — —	— — —	1 — —	1 — —	— — —	— — —	— — —	1 — —	— — —	1 — —	1 — —	1 — —
Group II	Discharge Arrested	3 2 —	5 3 —	5 2 1	4 2 —	4 2 —	2 4 3	3 1 —	1 — —	6 5 1	8 1 —	11 6 2	24 2 1	10 2 —	10 — 1	18 3 1	4 3 —	9 — —	9 — —	9 2 —	4 1 —	10 — —	10 — —	Alive Dead Lost sight of
	Much Improved	1 — 1	3 4 1	3 6 —	3 4 1	1 2 —	4 5 —	1 1 —	7 3 1	2 3 —	7 3 1	24 3 1	30 2 1	3 — —	1 — —	3 — —	— — —	— — —	3 — —	5 — —	3 — —	3 — —	4 — —	Alive Dead Lost sight of



